

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V**

DATE: _____

SUBJECT: **Review of Data**
Received for Review on August 1, 2002

FROM: **Stephen L. Ostrodka, Chief (SMF-4J)**
Superfund Field Services Section

TO: **Data User:** Tetra Tech _____

We have reviewed the data for the following case:

Site name: Sauget Site H & I (IL) _____

Case number: 30721 _____ **SDG Number:** E21K0 _____

Number and Type of Samples: 19 soil samples _____

Sample Numbers: E21K0-E21K9, E21L1-E21L9 _____

Laboratory: Clayton _____ **Hrs. for Review:** _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 30721

Site Name: Sauget Site H & I (IL)

SDG Number: E21K0

Laboratory: Clayton

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen soil samples (E21K1-E21K9 and E21L1-E21L9) were collected on 07/13-15/2002. The laboratory received the samples on 07/16-17/2002. All samples were analyzed for the full list of organic analytes according to CLP SOW OLMO4.2 5/99.

Samples E21L7-E21L9 were received in good condition. Samples E21L1 to E21L6 were 8.8°C upon receipt. Samples E21K0-E21K9 and E21L0 were 8.5°C upon receipt.

Case Number : 30721

Site Name: Sauget Site H & I (IL)

SDG Number: E21K0

Laboratory: Clayton

1. HOLDING TIME

No problems were found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Trichlorofluoromethane

E21K7, E21K7RE, E21K8DL, E21L9, VBLKKI

Acetone, 2-Butanone

E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K6DL, E21K7, E21K7RE, E21K8, E21K8DL, E21L1, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L6DL, E21L7, E21L8, E21L9, VBLKKC, VBLKKH, VBLKKI, VBLKKJ, VHBLKKA

4-Methyl-2-pentanone, 2-Hexanone

E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K7, E21K7RE, E21K8DL, E21L9, VBLKKC, VBLKKI

1,2-Dibromo-3-chloropropane

E21K6, E21K7, E21K7RE, E21K8DL, E21K9, E21L6, E21L9, VBLKKD, VBLKKI

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2,2'-oxybis(1-Chloropropane)

E21K0, E21K0DL, E21K1, E21K1DL, E21K2, E21K3, E21K3DL, E21K4, E21K5, E21K6, E21K7, E21K7DL, E21K8, E21K9, E21L1, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L5DL, E21L6, E21L7, E21L8, E21L8DL, E21L9, SBLKS1, SBLKS2

Hexachlorocyclopentadiene

E21K0DL, E21K1, E21K1DL, E21K2, E21K3, E21K3DL, E21K6, E21K7DL, E21K8, E21L2, E21L2MS, E21L2MSD, E21L3, E21L4, E21L5, E21L5DL, E21L6, E21L7, E21L8DL, E21L9, SBLKS2

2-Nitroaniline

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E21K0, E21K4, E21K5, E21K7, E21K9, E21L1, E21L8, SBLKS1

2,4-Dinitrophenol, Pentachlorophenol

E21K0DL, E21K1, E21K2, E21K3, E21K3DL, E21K6, E21K7DL, E21K8, E21L2, E21L2MS,
E21L2MSD, E21L3, E21L4, E21L5, E21L6, E21L7, E21L8DL, E21L9, SBLKS2

Atrazine

E21K0DL, E21K2, E21K3, E21K7DL, E21K8, E21L2, E21L2MS, E21L8DL

3,3'-Dichlorobenzidine

E21K0, E21K0DL, E21K1DL, E21K2, E21K3, E21K4, E21K5, E21K7, E21K7DL, E21K8, E21K9,
E21L1, E21L2, E21L2MS, E21L5DL, E21L8, E21L8DL, SBLKS1

4. METHOD BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are qualified "U" and non-detects are not flagged.

1,2,4-Trichlorobenzene

E21L8

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

1,2,4-Trichlorobenzene

E21K6, E21K6DL, E21K7, E21K9, E21L1, E21L2, E21L2MSD, E21L3, E21L4, E21L5, E21L6,
E21L6DL, VHBLKKA

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" or "UJ" and non-detects are not flagged.

Acetone

E21K0, E21K1, E21K2, E21K3, E21K4, E21K5, E21K6, E21K6DL, E21K7, E21K7RE, E21K8,
E21K8DL, E21K9, E21L1, E21L2, E21L2MS, E21L3, E21L4, E21L5, E21L6, E21L7, E21L8, E21L9,
VHBLKKA

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

Surrogate recoveries for VOA sample E21K7RE was not reported on Form II. Raw data indicates the surrogate

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SDG Number: E21K0

Laboratory: Clayton

recoveries for E21K7RE were within the QC limits.

The following semivolatile samples have surrogate recoveries of less than 10% and a dilution factor which exceeds criteria. Hits and non-detects are not flagged due to sample dilution.

E21L5DL

The following semivolatile samples have two or more base/neutral surrogate recoveries below the lower limit of criteria window and greater than 10%. Hits and non-detects are not flagged due to sample dilution.

E21L8DL, E21K8

The following semivolatile samples have one surrogate recovery in each fraction exceeds criteria. Hits and non-detects are not flagged since the protocol allows at least two surrogates in either the base/neutral or acid fraction to be out of control before a reanalysis or qualification of the results is required.

E21L8, E21K3DL

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

E21K1, E21K6, E21L3, E21L4

The following pesticide samples have surrogate percent recoveries outside the lower limit of the criteria window but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

E21K2

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window. Hits and non-detects are qualified below.

E21K0

The following pesticide samples have surrogate recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

E21K0, E21K7

The following pesticide samples have surrogate percent recoveries outside the QC limits. Hits and non-detects are not flagged due to sample dilution.

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E21K7DL, E21K8, E21K8DL, E21L1, E21L1DL, E21L2, E21L2DL, E21L2MS, E21L2MSD, E21L4DL,
E21L5, E21L5DL, E21L6, E21L6DL, E21L7, E21L7DL, E21L9, E21L9DL

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Results for the outlier compounds in the unspiked sample E21L2 are estimated "J" and non-detects are not qualified.

E21L2MS, E21L2MSD

Chlorobenzene

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Results for the outlier compounds in the unspiked sample E21L2 are estimated "J" and non-detects are estimated "UJ".

E21L2MS, E21L2MSD

Pentachlorophenol

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Hits and non-detects in the unspiked sample E21L2 are not flagged due to sample dilution and matrix interference.

E21L2MS, E21L2MSD

Heptachlor, 4,4'-DDT

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits and non-detects in the unspiked sample E21L2 are not flagged due to sample dilution and matrix interference.

E21L2MS, E21L2MSD

gamma-BHC (Lindane), Heptachlor, Aldrin, Dieldrin, Endrin, 4,4'-DDT

7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this data set were identified as trip blanks, field blanks or field duplicates.

8. INTERNAL STANDARDS

No problems were found for this qualification.

9. COMPOUND IDENTIFICATION

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SDG Number: E21K0

Laboratory: Clayton

After reviewing the mass spectra and chromatograms, it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E21K0

Methylene chloride, Cyclohexane, Trichloroethene, Methylcyclohexane, Tetrachloroethene, 1,2-Dichlorobenzene

E21K1

Methylene chloride, Toluene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

E21K2

Methylene chloride, Benzene, Methylcyclohexane, Tetrachloroethene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

E21K3

Vinyl chloride, Methylene chloride, Trichloroethene, Ethylbenzene, Isopropylbenzene

E21K4

Vinyl chloride, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene chloride, Trans-1,2-Dichloroethene, Methyl tert-Butyl Ether, 2-Butanone, Cyclohexane, Methylcyclohexane, Toluene, 1,1,2-Trichloroethene, Tetrachloroethene, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylene(total), Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene

E21K5

Cis-1,2-Dichloroethene, Trichloroethene, 1,2,4-Trichlorobenzene

E21K6

1,1-Dichloroethene, 1,1-Dichloroethane, 1,1,1-Trichloroethane, Cyclohexane, Methylcyclohexane, Ethylbenzene, 1,2-Dichlorobenzene

E21K6DL

Vinyl chloride, Benzene, Trichloroethene, Tetrachloroethene, Xylene(total), 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21K7

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SDG Number: E21K0

Laboratory: Clayton

Benzene, Trichloroethene, 4-Methyl-2-pentanone, Tetrachloroethene, Ethylbenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21K7RE

Benzene, Trichloroethene, 4-Methyl-2-pentanone, Tetrachloroethene, Ethylbenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

E21K8

2-Butanone, Benzene, Trichloroethene, 4-Methyl-2-pentanone, Tetrachloroethene

E21K8DL

Benzene, 4-Methyl-2-pentanone, Toluene, Ethylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21K9

Benzene, Chlorobenzene, 1,4-Dichlorobenzene

E21L1

Methyl Acetate, Methylene chloride, Benzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L2

Methylene chloride, Benzene, Methylcyclohexane, Ethylbenzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L2MS

2-Butanone, Methylcyclohexane, Ethylbenzene, Xylene(total), 1,2-Dichlorobenzene

E21L2MSD

Methylcyclohexane, Ethylbenzene, Xylene(total), 1,2-Dichlorobenzene

E21L3

Vinyl chloride, Cis-1,2-Dichloroethene, Benzene, Tetrachloroethene, Xylene(total), 1,4-Dichlorobenzene, 1,2-Dichlorobenzene

E21L4

Methylene chloride, Methylcyclohexane, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L5

2-Butanone, Toluene, Ethylbenzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L6

Methylcyclohexane, Xylene(total), Isopropylbenzene, 1,2-Dichlorobenzene

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E21L6DL

Methylene chloride, Ethylbenzene, Isopropylbenzene, 1,3-Dichlorobenzene

E21L7

Methylene chloride, Cyclohexane, Methylcyclohexane, Toluene, Ethylbenzene, Xylene(totoal), Isopropylbenzene, 1,3-Dichlorobenzene

E21L8

Methyl Acetate, Benzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

E21L9

Tetrachloroethene, Ethylbenzene, 1,3-Dichlorobenzene, 1,2-Dichlorobenzene

VBLKKC

Acetone

VBLKKD

Acetone, Methylene chloride, 2-Butanone, 1,2, 4-Trichlorobenzene

VBLKKH, VBLKKI, VBLKKJ

Acetone, 1,2, 4-Trichlorobenzene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All result below the CRQL are qualified "J".

E21K0

Phenol, Nitrobenzene, 2,4-Dichlorophenol, 2-Nitroaniline, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Chrysene

E21K0DL

Nitrobenzene, 2,4-Dichlorophenol, Naphthalene, 1,1'-Biphenyl , 2-Nitroaniline, Pentachlorophenol, Phenanthrene, Chrysene

E21K1

Phenol, 2,4-Dichlorophenol, Naphthalene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,1'-Biphenyl , Hexachlorobenzene, Phenanthrene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate, Chrysene

E21K1DL

Chrysene

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SDG Number: E21K0

Laboratory: Clayton

E21K2

Pentachlorophenol, Di-n-butylphthalate

E21K3

Phenol, 2-Methylphenol, Acetophenone, 4-Methylphenol, Pentachlorophenol, bis(2-Ethylhexyl)phthalate

E21K3DL

Acetophenone, Pentachlorophenol

E21K4

Phenanthrene, Di-n-octylphthalate

E21K5

4-Chloroaniline, N-Nitrosodiphenylamine, Pentachlorophenol

E21K6

2,4-Dichlorophenol, Naphthalene, 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluorene, Pentachlorophenol, Anthracene, Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

E21K7

Nitrobenzene, 2,4-Dichlorophenol, Hexachlorobutadiene, 2,4,6-Trichlorophenol, 1,1'-Biphenyl

E21K7DL

Nitrobenzene, 1,1'-Biphenyl

E21K8

Naphthalene, 4-Chloroaniline, Di-n-butylphthalate

E21K9

2,4-Dichlorophenol, 4-Chloroaniline

E21L1

2-Chlorophenol, 4-Chloroaniline, Pentachlorophenol

E21L2

Naphthalene, 4-Chloroaniline, Phenanthrene, Fluoranthene, Pyrene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene

E21L2MS

N-Nitroso-di-n-propylamine, Naphthalene, 4-Chloroaniline, 1,1'-Biphenyl, 4-Nitrophenol, Pentachloropheno

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Phenanthrene, Di-n-butylphthalate, Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene

E21L2MSD

N-Nitroso-di-n-propylamine, Naphthalene, 4-Chloroaniline, 1,1'-Biphenyl, 4-Nitrophenol, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene, Di-n-butylphthalate, Fluoranthene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

E21L3

Naphthalene, Fluorene, Pentachlorophenol, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

E21L4

4-Chloroaniline, Phenanthrene, Pyrene, Chrysene

E21L5

2,4-Dichlorophenol, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol

E21L6

Phenanthrene

E21L7

Benzaldehyde, Phenol, 2-Methylphenol, 2,4-Dichlorophenol, Naphthalene, Fluorene, Phenanthrene, Di-n-butylphthalate, Pyrene, Chrysene

E21L8

Phenol, 2-Chlorophenol, Pentachlorophenol, Di-n-octylphthalate

E21L8DL

2,4,6-Trichlorophenol, Pentachlorophenol, Di-n-octylphthalate

E21L9

Phenol, 2,4-Dichlorophenol, 4-Chloroaniline, 2-Methylnaphthalene, 2,4,6-Trichlorophenol, Acenaphthene, Dibenzofuran, Fluorene, N-Nitrosodiphenylamine, Pentachlorophenol, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E21K1

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Laboratory: Clayton

Heptachlor, Endosulfan sulfate

E21K3

beta-BHC, Heptachlor epoxide, Dieldrin

E21K7

alpha-BHC

E21K7DL

delta-BHC, Endosulfan I, Methoxychlor

E21K8

Heptachlor, Methoxychlor, alpha-Chlordane

E21K8DL

Aroclor-1242

E21L1

Endosulfan II, Endosulfan sulfate, Methoxychlor

E21L1DL

4,4'-DDD, Aroclor-1260

E21L2, E21L9

beta-BHC

E21L2DL

Endosulfan II, Endosulfan sulfate, Aroclor-1242

E21L4

Heptachlor

E21L4DL

Methoxychlor, Endrin ketone

E21L6

Methoxychlor

E21L6DL

Heptachlor, 4,4'-DDT, Aroclor-1260

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E21L7, E21L8

Endosulfan sulfate, Methoxychlor, Endrin ketone

E21L7DL

4,4'-DDE, Aroclor-1254, Aroclor-1260

E21L9DL

Heptachlor, Aroclor-1242, Aroclor-1260

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

E21K0

Heptachlor, Methoxychlor, Endrin ketone, Endrin aldehyde, Aroclor-1242, Aroclor-1260.

E21K1

Heptachlor, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Aroclor-1242, Aroclor-1260

E21K2

Heptachlor, Endosulfan I, Endrin ketone, Aroclor-1242, Aroclor-1260

E21K3

alpha-BHC, beta-BHC, Heptachlor epoxide, Dieldrin, Aroclor-1260

E21K5

delta-BHC

E21K6

4,4'-DDE, 4,4'-DDD, 4,4'-DDT

E21K7

alpha-BHC, delta-BHC, Heptachlor, Endosulfan I, Endrin ketone, Aroclor-1242

E21K7DL

delta-BHC, Heptachlor, Endosulfan I, Methoxychlor, Aroclor-1242, Aroclor-1254, Aroclor-1260

E21K8

Heptachlor, Methoxychlor, alpha-Chlordane, Aroclor-1242, Aroclor-1254

E21L1

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Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Aroclor-1260

E21L1DL

4,4'-DDD, 4,4'-DDT, Aroclor-1260

E21L2

Heptachlor, Endosulfan I, 4,4'-DDE, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Aroclor-1260

E21L2DL

Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Endrin aldehyde, Aroclor-1260

E21L2MS

Heptachlor, Endosulfan I, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Methoxychlor, Endrin ketone, Aroclor-1254, Aroclor-1260

E21L2MSD

Heptachlor, Endosulfan I, Endosulfan II, 4,4'-DDD, 4,4'-DDT, Endosulfan sulfate, Methoxychlor, Aroclor-1254, Aroclor-1260

E21L3

4,4'-DDE, 4,4'-DDD

E21L4

Heptachlor, Endosulfan I, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, Aroclor-1260

E21L4DL

Methoxychlor, Endrin ketone, Aroclor-1260

E21L6

Heptachlor, Endosulfan I, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Aroclor-1242, Aroclor-1260

E21L6DL

Heptachlor, Endosulfan I, 4,4'-DDT, Aroclor-1242, Aroclor-1260

E21L7

beta-BHC, Heptachlor, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Aroclor-1254

E21L7DL

Aroclor-1254, Aroclor-1260

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Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, alpha-Chlordane, Aroclor-1254, Aroclor-1260

E21L9

beta-BHC, Heptachlor, Endosulfan II, Methoxychlor, Aroclor-1254, Aroclor-1260

E21L9DL

Aroclor-1242, Aroclor-1260

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

For the VOA fraction, the results of the following analytes were quantitated outside the calibration range:

E21K6, E21L6: Chlorobenzene

E21K8: 1,2,4-Trichlorobenzene

For the SVOA fraction, the results of the following analytes were quantitated outside the calibration range:

E21K0: 4-Chloroaniline

E21K1: 4-Chloroaniline, Pentachlorophenol

E21K3: Naphthalene

E21K7, E21L5: Pentachlorophenol

E21L8: 2,4-Dichlorophenol

For the Pest/PCB fraction, the results of the following analytes were quantitated outside the calibration range:

E21K7: Heptachlor, Endrin, Endrin Aldehyde

E21L1, E21L2: 4,4'-DDT

E21L4: Aroclor-1254, Aroclor-1260

E21L7: 4,4'-DDD, 4,4'-DDT

E21L9: 4,4'-DDD

For the analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analyte should be considered the sample's analyte concentration.

For Pest/PCB fraction, samples E21L5 and E21L6 were analyzed with further dilutions due to matrix interference.

Reviewed By: Steffanie Tobin (IITRI/ESAT)

Date: August 12, 2002

Case Number : 30721

Site Name: Sauget Site H & I (IL)

SDG Number: E21K0

Laboratory: Clayton

The results for E21L5DL and E21L6DL should be used for result validations.

The result of 4,4'-DDT for E21L8 was quantitated outside the calibration range. No further dilution was analyzed. The result for 4,4'-DDT of E21L8 is estimated "J".

The results of Chlorobenzene for the VOA matrix spike/matrix spike duplicate (E21L2MS and E21L2MSD); the results of Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Endrin ketone for the Pest/PCB matrix spike (E21L2MS) and 4,4'-DDD, 4,4'-DDT for the Pest/PCB matrix spike duplicate (E21L2MSD) were quantitated outside the calibration range. No further dilutions were analyzed since these samples were used for QC purposes only.

All data for CADRE narrative and spreadsheets of the VOA and Pest/PCB fractions were entered by the data reviewer. This was because % moisture was not reported by the laboratory.

Samples E21L7-E21L9 were received in good condition. Samples E21L1 to E21L6 were 8.8°C upon receipt. Samples E21K0-E21K9 and E21L0 were 8.5°C upon receipt.

CADRE Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Volatile Analysis Data - VBLKKC

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
	UNKNOWN (4.74)	4.74	860.000

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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Volatile Analysis Data - E21K0

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
1000110-83-8 CYCLOHEXENE		9.97	170000.000
NJ			
1000095-51-2 BENZENAMINE, 2-CHLORO-		20.55	16000.000
NJ			
1000614-72-2 BENZENE, 1-CHLORO-2-ETHOXY-		20.62	35000.000
NJ			
1000108-70-3 BENZENE, 1,3,5-TRICHLORO-		21.61	29000.000
NJ			
1000088-73-3 2-CHLORONITROBENZENE		22.93	25000.000
NJ			
1000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO-		23.45	38000.000
NJ			

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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Volatile Analysis Data - E21K1

Tentatively Identified Compounds

| CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0

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CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
	UNKNOWN (4.99)	4.99	9300.000
J			
1000110-83-8 CYCLOHEXENE		9.96	12000.000
NJ			

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| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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| Volatile Analysis Data - E21K2
|
| Tentatively Identified Compounds
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| CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0

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CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
	1000110-83-8 CYCLOHEXENE	9.97	62000.000
NJ			
	1000611-14-3 BENZENE, 1-ETHYL-2-METHYL- (16.39)	16.39	45000.000
NJ			
	1000095-63-6 BENZENE, 1,2,4-TRIMETHYL-	16.53	22000.000
NJ			
	1000611-14-3 BENZENE, 1-ETHYL-2-METHYL- (16.86)	16.86	23000.000
NJ			
	1000526-73-8 BENZENE, 1,2,3-TRIMETHYL-	17.12	79000.000
NJ			
	UNKNOWN (17.37)	17.37	20000.000
J			
	UNKNOWN (17.45)	17.45	14000.000
J			
	1001074-43-7 BENZENE, 1-METHYL-3-PROPYL-	18.04	21000.000
NJ			
	UNKNOWN (18.13)	18.13	110000.000
J			
	1000934-80-5 BENZENE, 4-ETHYL-1,2-DIMETHYL- (18.62)	18.62	52000.000
NJ			
	1000934-80-5 BENZENE, 4-ETHYL-1,2-DIMETHYL- (18.72)	18.72	51000.000
NJ			
	UNKNOWN (18.97)	18.97	46000.000
J			
	1002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL-	19.23	32000.000
NJ			
	1000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL- (19.37)	19.37	35000.000
NJ			

000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL-	(19.45)	19.45	65000.000
NJ	UNKNOWN (19.89)	19.89	31000.000
J			
000488-23-3 BENZENE, 1,2,3,4-TETRAMETHYL-		20.11	76000.000
NJ	UNKNOWN (20.62)	20.62	39000.000
J			
000095-15-8 BENZO(B)THIOPHENE		21.44	23000.000
NJ			

-----	FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99		
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Volatile Analysis Data - E21K3

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS NUMBER Q	COMPOUND NAME	ESTIMATED	
		RT	CONCENTRATION
0000620-14-4 BENZENE, 1-ETHYL-3-METHYL-		16.39	190000.000
NJ			
000095-63-6 BENZENE, 1,2,4-TRIMETHYL-		16.53	200000.000
NJ			
000108-67-8 BENZENE, 1,3,5-TRIMETHYL-		17.12	850000.000
NJ			
000526-73-8 BENZENE, 1,2,3-TRIMETHYL-		17.78	390000.000
NJ			
001074-43-7 BENZENE, 1-METHYL-3-PROPYL-		18.05	850000.000
NJ			
000141-93-5 BENZENE, 1,3-DIETHYL-		18.13	1800000.000
NJ			
001074-17-5 BENZENE, 1-METHYL-2-PROPYL-		18.45	470000.000
NJ			
001758-88-9 BENZENE, 2-ETHYL-1,4-DIMETHYL-		18.57	940000.000
NJ			
002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL- (18.72)		18.72	1600000.000
NJ			
UNKNOWN (18.9)		18.90	760000.000
J			
UNKNOWN (19.02)		19.02	250000.000
J			
002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL- (19.23)		19.23	730000.000
NJ			
000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL- (19.37)		19.37	1600000.000
NJ			
000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL- (19.44)		19.44	4200000.000
NJ			
UNKNOWN (19.77)		19.77	640000.000
J			
000824-22-6 1H-INDENE, 2,3-DIHYDRO-4-METHYL-		19.89	1100000.000
NJ			
UNKNOWN (19.96)		19.96	680000.000
J			
000488-23-3 BENZENE, 1,2,3,4-TETRAMETHYL-		20.12	2400000.000
NJ			
UNKNOWN (20.47)		20.47	350000.000
J			
025550-13-4 BENZENE, DIETHYLMETHYL-		20.64	2100000.000
NJ			
017851-27-3 BENZENE, 1-ETHYL-2,4,5-TRIMETHYL-		20.83	1100000.000
NJ			
004218-48-8 BENZENE, 1-ETHYL-4-(1-METHYLETHYL)-		21.09	230000.000
NJ			
006682-71-9 1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (21.72)		21.72	400000.000
NJ			
UNKNOWN (21.91)		21.91	160000.000
J			
006682-71-9 1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (22.03)		22.03	220000.000

NJ |
| 000700-12-9 BENZENE, PENTAMETHYL- 22.24 490000.000
NJ |
| 001075-22-5 INDAN, 5,6-DIMETHYL- 22.40 160000.000
NJ |

| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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| Volatile Analysis Data - E21K4

| Tentatively Identified Compounds

| CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q	-----	-----	-----
UNKNOWN (5.02)		5.02	680.000
J	-----	-----	-----
000488-23-3 BENZENE, 1,2,3,4-TETRAMETHYL-		19.35	860.000
NJ	-----	-----	-----
UNKNOWN (19.42)		19.42	650.000
J	-----	-----	-----
UNKNOWN (20.1)		20.10	1200.000
J	-----	-----	-----

| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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| Volatile Analysis Data - E21K5

| Tentatively Identified Compounds

| CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q	-----	-----	-----
UNKNOWN (5.03)		5.03	11000.000
J	-----	-----	-----

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Volatile Analysis Data - VBLKKD

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS NUMBER Q	COMPOUND NAME	ESTIMATED RT	CONCENTRATION
	UNKNOWN (4.74)	4.74	790.000
J	UNKNOWN (5.07)	5.07	2100.000
J	1000156-43-4 BENZENAMINE, 4-ETHOXY-	23.11	3900.000
NJ			

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Volatile Analysis Data - E21K6

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS NUMBER Q	COMPOUND NAME	ESTIMATED RT	CONCENTRATION
	1000110-83-8 CYCLOHEXENE	9.97	1200000.000
NJ	UNKNOWN (23.1)	23.10	64000.000
J			

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Volatile Analysis Data - E21K9

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT MIN	ESTIMATED CONCENTRATION
	UNKNOWN (23.11)	23.11	42000.000

J
FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99
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Volatile Analysis Data - E21L6
Tentatively Identified Compounds

CASE NO: 30721
SDG NO: E21K0

CAS NUMBER	COMPOUND NAME	RT MIN	ESTIMATED CONCENTRATION
1000103-65-1	BENZENE, PROPYL-	16.05	60000.000
NJ			
1000135-98-8	BENZENE, (1-METHYLPROPYL)-	17.37	27000.000
NJ			
1000104-51-8	BENZENE, BUTYL-	18.19	72000.000
NJ			
	UNKNOWN (18.95)	19.39	13000.000
J			
1000538-68-1	BENZENE, PENTYL-	19.49	35000.000
NJ			
1000119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-	20.48	20000.000
NJ			
1067519-35-1	2-METHYL-1,2,3,4-TERAHYDRONAPHTHALENE	21.29	50000.000
NJ			
1001559-81-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1-METHYL	21.49	17000.000
NJ			
	UNKNOWN (21.53)	21.59	17000.000
J			
1002809-64-5	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-5-METHYL	22.09	27000.000
NJ			
	UNKNOWN (23.13)	23.29	21000.000
J			

J
FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99
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Volatile Analysis Data - E21K6DL
Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG

CAS	COMPOUND	ESTIMATED
NAME	RT	CONCENTRATION
NUMBER	NAME	
Q		
000110-83-8 CYCLOHEXENE	9.98	820000.000
NJ		

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99
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Volatile Analysis Data - E21K8

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

Q	CAS NUMBER	COMPOUND NAME	ESTIMATED	
			RT	CONCENTRATION
		UNKNOWN (5.12)	5.12	3800.000
J	000110-83-8	CYCLOHEXENE	9.97	2600.000
NJ		UNKNOWN (15.63)	15.63	1400.000
J	000611-14-3	BENZENE, 1-ETHYL-2-METHYL-	16.41	1900.000
NJ		000095-63-6 BENZENE, 1,2,4-TRIMETHYL-	16.53	880.000
NJ		000611-14-3 BENZENE, 1-ETHYL-2-METHYL-	16.86	990.000
NJ		000526-73-8 BENZENE, 1,2,3-TRIMETHYL-	17.12	3400.000
NJ		UNKNOWN (18.13)	18.13	4600.000
J		000874-41-9 BENZENE, 1-ETHYL-2,4-DIMETHYL-	18.64	2600.000
NJ		001758-88-9 BENZENE, 2-ETHYL-1,4-DIMETHYL-	18.74	2600.000
NJ		UNKNOWN (18.97)	18.97	2200.000
NJ		000527-84-4 BENZENE, 1-METHYL-2-(1-METHYLETHYL)-	19.23	1900.000
NJ		000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL-	19.37	2300.000
NJ		000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL-	19.45	3700.000
NJ		UNKNOWN (19.78)	19.78	860.000
NJ		001587-04-8 BENZENE, 1-METHYL-2-(2-PROPYNYL)-	19.90	1600.000
NJ		000934-74-7 BENZENE, 1-ETHYL-3,5-DIMETHYL-	20.13	4500.000
NJ		000614-72-2 BENZENE, 1-CHLORO-2-ETHOXY-	20.64	11000.000
NJ		000108-70-3 BENZENE, 1,3,5-TRICHLORO-	21.63	29000.000
NJ		000100-00-5 BENZENE, 1-CHLORO-4-NITRO-	22.53	2100.000
NJ		000000-00-0 2,4,5-TRICHLORTOLUENE	22.88	1900.000
NJ		000100-00-5 BENZENE, 1-CHLORO-4-NITRO-	22.95	1600.000
NJ		002077-46-5 BENZENE, 1,2,4-TRICHLORO-3-METHYL-	23.09	1300.000
NJ		000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO-	23.47	59000.000

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
	UNKNOWN (5.04)	5.04	8300.000
J	000100-66-3 BENZENE, METHOXY-	15.86	11000.000
NJ	000090-05-1 PHENOL, 2-METHOXY-	19.61	15000.000
NJ	000766-51-8 BENZENE, 1-CHLORO-2-METHOXY-	19.86	10000.000
NJ	000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO-	23.46	7600.000
	FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99		
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Volatile Analysis Data - E21L3

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
1000110-83-8 CYCLOHEXENE		9.97	790000.000

NJ

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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Volatile Analysis Data - E21L5

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
J	UNKNOWN (4.76)	4.76	2600.000
J	UNKNOWN (5.05)	5.05	7900.000

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Volatile Analysis Data - E21L6DL

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED
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NUMBER	NAME	RT	CONCENTRATION
Q			

UNKNOWN (16.29)		16.29	93000.000
J			
000104-51-8 BENZENE, BUTYL-		18.18	120000.000
NJ			
000538-68-1 BENZENE, PENTYL-		19.90	75000.000
NJ			
000119-64-2 NAPHTHALENE, 1,2,3,4-TETRAHYDRO-		20.44	390000.000
NJ			
067519-35-1 2-METHYL-1,2,3,4-TERAHYDRONAPHTHALENE		21.30	100000.000
NJ			
001077-16-3 BENZENE, HEXYL-		21.52	75000.000
NJ			
001680-51-9 NAPHTHALENE, 1,2,3,4-TETRAHYDRO-6-METHYL		22.08	81000.000
NJ			

FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99			
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Volatile Analysis Data - E21L7

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

Q	CAS NUMBER	COMPOUND NAME	ESTIMATED RT CONCENTRATION	
			RT	CONCENTRATION
J		UNKNOWN (12.55)	12.55	34000.000
J		UNKNOWN (12.81)	12.81	69000.000
J		UNKNOWN (13.1)	13.10	160000.000
J		UNKNOWN (13.28)	13.28	83000.000
J	1000000-00-0	DIMETHYL-3,5 HEPTENE-3	13.52	610000.000
NJ		UNKNOWN (13.75)	13.75	440000.000
J		UNKNOWN (13.87)	13.87	60000.000
J		UNKNOWN (13.92)	13.92	65000.000
J		UNKNOWN (14.15)	14.15	69000.000
J		UNKNOWN (14.25)	14.25	290000.000
J		UNKNOWN (14.76)	14.76	68000.000
J		UNKNOWN (15.11)	15.11	49000.000
J		UNKNOWN (15.44)	15.44	230000.000
J		UNKNOWN (15.61)	15.61	130000.000
J		UNKNOWN (16.08)	16.08	69000.000
J		UNKNOWN (16.29)	16.29	35000.000
J	1000464-17-5	BORNYLENE	17.47	57000.000
NJ				
NJ	1000104-51-8	BENZENE, BUTYL-	18.18	69000.000
NJ				
NJ	1006669-13-2	BENZENE, (1,1-DIMETHYLETHOXY)-	19.37	71000.000
NJ				
NJ	1000538-68-1	BENZENE, PENTYL-	19.91	34000.000
NJ				
NJ	1000119-64-2	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-	20.44	200000.000
NJ				
NJ	1003877-19-8	NAPHTHALENE, 1,2,3,4-TETRAHYDRO-2-METHYL	21.30	91000.000
NJ				
NJ	1074646-38-1	TETRACYCLO(5.2.1.0(2,6).0(3,5))DECANE, 4	21.54	48000.000
NJ				
NJ	1000087-61-6	BENZENE, 1,2,3-TRICHLORO-	21.63	61000.000
NJ				
		UNKNOWN (22.06)	22.06	85000.000

J | UNKNOWN (23.24) 23.24 38000.000
 J |
 1000095-94-3 BENZENE, 1,2,4,5-TETRACHLORO- 23.47 140000.000
 NJ |

| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99
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| Volatile Analysis Data - E21L8
 |
 | Tentatively Identified Compounds
 |
 | CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
 |
 | SDG NO: E21K0
 |

CAS	COMPOUND	ESTIMATED
NUMBER	NAME	RT CONCENTRATION
Q		
1000644-08-6 1,14-BIPHENYL, 4-METHYL-		16.90 3500.000

NJ |

| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99
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| Volatile Analysis Data - E21L9
 |
 | Tentatively Identified Compounds
 |
 | CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
 |
 | SDG NO: E21K0
 |

CAS	COMPOUND	ESTIMATED
NUMBER	NAME	RT CONCENTRATION
Q		
1000080-56-8 .ALPHA.-PINENE, (-)-		15.63 84000.000

NJ |
 1000079-92-5 CAMPHENONE 16.08 340000.000
 NJ |
 UNKNOWN (16.48) 16.48 27000.000
 J |
 1020536-41-8 EXOISOCAMPHANE 16.65 100000.000
 NJ |
 1000527-84-4 BENZENE, 1-METHYL-2-(1-METHYLETHYL)- 17.56 130000.000
 NJ |
 1000120-82-1 BENZENE, 1,2,4-TRICHLORO- 21.63 35000.000
 NJ |
 1000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO- 23.47 65000.000

NJ |

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| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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Volatile Analysis Data - E21K7

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
1000100-00-5 BENZENE, 1-CHLORO-4-NITRO-		22.53	71000.000
NJ			

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Volatile Analysis Data - E21K8DL

Tentatively Identified Compounds

CASE NO: 30721

SDG NO: E21K0

LABORATORY: CLAYTON GROUP SERVICES

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
J	UNKNOWN (4.74)	4.74	2600.000
J	UNKNOWN (5.04)	5.04	3700.000
NJ	1000614-72-2 BENZENE, 1-CHLORO-2-ETHOXY-	20.64	5400.000
NJ	1000087-61-6 BENZENE, 1,2,3-TRICHLORO-	21.63	14000.000
NJ	1000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO-	23.47	28000.000

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Volatile Analysis Data - E21K7RE

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0
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|-----|
| CAS COMPOUND ESTIMATED
| NUMBER NAME RT CONCENTRATION
Q
000110-83-8 CYCLOHEXENE 9.97 31000.000
NJ
000100-00-5 BENZENE, 1-CHLORO-4-NITRO- 22.53 78000.000
NJ
000088-73-3 2-CHLORONITROBENZENE 22.95 22000.000
NJ
000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO- 23.47 22000.000
NJ

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| Volatile Analysis Data - VBLKKJ
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| Tentatively Identified Compounds
|
| CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
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| SDG NO: E21K0
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| CAS COMPOUND ESTIMATED
| NUMBER NAME RT CONCENTRATION
Q
UNKNOWN (7.12) 7.12 750.000
J

| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99
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| Volatile Analysis Data - VHBLKKA
|
| Tentatively Identified Compounds
|
| CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
|
| SDG NO: E21K0
|
|-----|

| CAS COMPOUND ESTIMATED
| NUMBER NAME RT CONCENTRATION
Q

| UNKNOWN (4.74)

4.74

640.000

J |-----|
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| FILE NAME: E21K0.SDG DATE: 08/02/2002 TIME: 10:20 CADRE99

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Semivolatile Analysis Data - E21K4

Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
	UNKNOWN (19.74)	19.74	1200.000
J	UNKNOWN (23.65)	23.65	1300.000
J			

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Semivolatile Analysis Data - E21L8

Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
	UNKNOWN (9.73)	9.73	14000.000
J	1000087-65-0 PHENOL, 2,6-DICHLORO-	10.20	7800.000
NJ	1000148-24-3 8-QUINOLINOL	12.82	3500.000
NJ	UNKNOWN (13.46)	13.46	4500.000
J	1000122-88-3 ACETIC ACID, (4-CHLOROPHOXY)- (14.31)	14.31	290000.000
NJ	1000122-88-3 ACETIC ACID, (4-CHLOROPHOXY)- (14.46)	14.46	12000.000
NJ	1001928-38-7 ACETIC ACID, (2,4-DICHLOROPHOXY)-, MET	15.01	560000.000
NJ	1000094-75-7 ACETIC ACID, (2,4-DICHLOROPHOXY)- (15.93)	15.93	940000.000
J	UNKNOWN (15.98)	15.98	53000.000
J	1000094-75-7 ACETIC ACID, (2,4-DICHLOROPHOXY)- (16.16)	16.16	280000.000
NJ	UNKNOWN (16.97)	16.97	2800.000
J			

J	UNKNOWN (17.3)	17.30	3700.000
J	UNKNOWN (17.51)	17.51	3700.000
J	UNKNOWN (17.6)	17.60	4100.000
J	1000582-54-7 2,5-DICHLOROPHOXYACETIC ACID	18.06	3200.000
NJ	UNKNOWN (18.44)	18.44	3900.000
J	UNKNOWN (18.6)	18.60	3800.000
J	UNKNOWN (19.37)	19.37	2800.000
J	UNKNOWN (19.66)	19.66	9600.000
J	UNKNOWN (19.76)	19.76	13000.000
J	1000000-00-0 1,2,4,5-TETRACHLORO-3,6-BIS-(DICHLOROMET	20.25	16000.000
NJ	UNKNOWN (20.37)	20.37	3300.000
J	UNKNOWN (21.15)	21.15	9200.000
J	UNKNOWN (23.07)	23.07	7200.000
J	UNKNOWN (23.22)	23.22	4800.000
J	UNKNOWN (23.34)	23.34	7400.000
J	UNKNOWN (23.51)	23.51	7700.000
J	UNKNOWN (23.65)	23.65	8100.000
J	UNKNOWN (23.81)	23.81	4900.000
J	UNKNOWN (23.93)	23.93	3400.000

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 | Semivolatile Analysis Data - E21K9

| Tentatively Identified Compounds

| CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
1000094-70-2 BENZENAMINE, 2-ETHOXY-		10.61	2700.000
NJ	UNKNOWN (14.07)	14.07	2300.000
J	UNKNOWN (14.47)	14.47	3100.000

	UNKNOWN (15.08)	15.08	3300.000
J	UNKNOWN (15.35)	15.35	3400.000
J	1004542-57-8 DODECANE, 1,14-OXYBIS-	15.62	5400.000
NJ	UNKNOWN (16.16)	16.16	8200.000
J	UNKNOWN (16.3)	16.30	14000.000
J	UNKNOWN (16.77)	16.77	5100.000
J	UNKNOWN (30.33)	30.33	4200.000
J			

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| Semivolatile Analysis Data - E21K7
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| Tentatively Identified Compounds
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| CASE NO: 30721
|
SDG NO: E21K0

CAS NUMBER Q	COMPOUND NAME	ESTIMATED RT CONCENTRATION
000095-51-2 BENZENAMINE, 2-CHLORO- NJ		9.04 790000.000
001863-63-4 BENZOIC ACID NJ		9.29 290000.000
UNKNOWN (10.12) J		10.12 57000.000
000121-73-3 BENZENE, 1-CHLORO-3-NITRO- NJ		10.63 190000.000
000100-00-5 BENZENE, 1-CHLORO-4-NITRO- NJ		10.80 1300000.000
000088-73-3 2-CHLORONITROBENZENE NJ		10.92 640000.000
000085-44-9 1,3-ISOBENZOFURANDIONE NJ		11.83 100000.000
000095-76-1 BENZENAMINE, 3,4-DICHLORO- NJ		11.98 840000.000
000608-31-1 BENZENAMINE, 2,6-DICHLORO- NJ		12.28 530000.000
000091-64-5 2H-1-BENZOPYRAN-2-ONE (12.93) NJ		12.93 100000.000
000130-15-4 1,4-NAPHTHALENEDIONE NJ		13.01 330000.000
000626-43-7 BENZENAMINE, 3,5-DICHLORO- (PURITY?) NJ		13.15 70000.000
000091-64-5 2H-1-BENZOPYRAN-2-ONE (13.33) NJ		13.33 470000.000
000085-41-6 1H-ISOINDOLE-1,3(2H)-DIONE NJ		13.40 48000.000
000100-29-8 BENZENE, 1-ETHOXY-4-NITRO- NJ		13.50 160000.000
000058-27-5 1,4-NAPHTHALENEDIONE, 2-METHYL- NJ		14.09 48000.000
000083-72-7 1,4-NAPHTHALENEDIONE, 2-HYDROXY- NJ		14.38 55000.000
000935-95-5 PHENOL, 2,3,5,6-TETRACHLORO- NJ		14.43 53000.000
000140-66-9 PHENOL, 4-(1,1,3,3-TETRAMETHYLBUTYL)- NJ		14.68 59000.000
000088-19-7 2-TOLUENESULFONAMIDE NJ		15.02 91000.000
000070-55-3 4-TOLUENESULFONAMIDE NJ		15.34 63000.000
000086-00-0 1,14-BIPHENYL, 2-NITRO- NJ		15.66 270000.000
UNKNOWN (16.39) J		16.39 47000.000
000092-93-3 1,14-BIPHENYL, 4-NITRO- NJ		16.96 230000.000
062796-65-0 1,14-BIPHENYL, 2,24,4,6-TETRACHLORO- NJ		17.54 48000.000

000084-65-1 9,10-ANTHRACENEDIONE	17.94	130000.000
NJ		
025429-29-2 1,14-BIPHENYL, PENTACHLORO- (18.47)	18.47	100000.000
NJ		
025429-29-2 1,14-BIPHENYL, PENTACHLORO- (18.74)	18.74	62000.000
NJ		
037680-73-2 1,14-BIPHENYL, 2,24,4,5,54-PENTACHLORO-	19.60	120000.000
NJ		
002498-66-0 BENZ (A) ANTHRACENE-7,12-DIONE	23.26	58000.000
NJ		

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Semivolatile Analysis Data - E21K0		
Tentatively Identified Compounds		
CASE NO: 30721		LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0		

CAS	COMPOUND	ESTIMATED
NUMBER	NAME	RT
Q		CONCENTRATION

000095-51-2 BENZENAMINE, 2-CHLORO-	9.07	2700000.000
NJ		
000140-29-4 BENZENEACETONITRILE	9.12	180000.000
NJ		
000106-47-8 BENZENAMINE, 4-CHLORO- (TCL)	10.13	66000.000
NJ		
000087-61-6 BENZENE, 1,2,3-TRICHLORO-	10.49	230000.000
NJ		
000121-73-3 BENZENE, 1-CHLORO-3-NITRO-	10.64	180000.000
NJ		
000100-00-5 BENZENE, 1-CHLORO-4-NITRO-	10.81	1100000.000
NJ		
000088-73-3 2-CHLORONITROBENZENE	10.98	4000000.000
NJ		
UNKNOWN (11.11)	11.11	54000.000
J		
000095-76-1 BENZENAMINE, 3,4-DICHLORO- (12.01)	12.01	2300000.000
NJ		
000608-31-1 BENZENAMINE, 2,6-DICHLORO-	12.29	1200000.000
NJ		
000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO-	12.68	2100000.000
NJ		
000095-76-1 BENZENAMINE, 3,4-DICHLORO- (13.16)	13.16	510000.000
NJ		
UNKNOWN (13.51)	13.51	180000.000
J		
000000-00-0 OCTYL PHENOL ISOMER	14.69	220000.000
NJ		
000090-41-5 (1,14-BIPHENYL)-2-AMINE	14.73	350000.000
NJ		
000086-00-0 1,14-BIPHENYL, 2-NITRO-	15.67	520000.000
NJ		
002243-47-2 (1,14-BIPHENYL)-3-AMINE	16.11	160000.000
NJ		

	UNKNOWN (16.4)	16.40	33000.000
J			
	UNKNOWN (16.85)	16.85	110000.000
J			
	000092-93-3 1,14-BIPHENYL, 4-NITRO-	16.97	830000.000
NJ			
	UNKNOWN (17.02)	17.02	44000.000
J			
	UNKNOWN (17.28)	17.28	140000.000
J			
	UNKNOWN (18.44)	18.44	160000.000
J			

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| Semivolatile Analysis Data - E21K5
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Tentatively Identified Compounds

| CASE NO: 30721

| LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
1000062-53-3	BENZENAMINE	6.79	100000.000
NJ	UNKNOWN (11.03)	11.03	130000.000
J	1000622-62-8 PHENOL, 4-ETHOXY-	11.17	130000.000
NJ	1000156-43-4 BENZENAMINE, 4-ETHOXY-	11.42	37000000.000
NJ	1000000-00-0 N-ETHYL-P-PHENETIDINE	12.97	1400000.000
NJ	UNKNOWN (14.61)	14.61	140000.000
J	UNKNOWN (15.02)	15.02	190000.000
J	UNKNOWN (15.15)	15.15	200000.000
J	1000062-44-2 PHENACETIN	15.52	420000.000
NJ	UNKNOWN (15.56)	15.56	130000.000
J	1000534-85-0 1,2-BENZENEDIAMINE, N-PHENYL-	16.72	180000.000
NJ	UNKNOWN (17.42)	17.42	180000.000
J	1000101-54-2 1,4-BENZENEDIAMINE, N-PHENYL-	17.60	1100000.000
NJ	UNKNOWN (18.45)	18.45	210000.000
J	UNKNOWN (18.55)	18.55	250000.000
J	1000101-80-4 BENZENAMINE, 4,44-OXYBIS-	18.68	500000.000
NJ	1075830-33-0 4-FORMYL-5-HYDROXY-(.DELTA.9,9A)-1,2-DIH	19.00	160000.000
NJ	UNKNOWN (19.22)	19.22	150000.000
J	UNKNOWN (19.31)	19.31	210000.000
J	UNKNOWN (19.48)	19.48	7200000.000
J	UNKNOWN (19.71)	19.71	12000000.000
J	UNKNOWN (20.17)	20.17	240000.000
J	UNKNOWN (20.47)	20.47	500000.000
J	UNKNOWN (20.57)	20.57	93000.000
J	UNKNOWN (21.55)	21.55	3800000.000

J	UNKNOWN (21.77)	21.77	96000.000
J	UNKNOWN (26.47)	26.47	150000.000
J	UNKNOWN (27.25)	27.25	460000.000
J	UNKNOWN (30.59)	30.59	400000.000
J	UNKNOWN (32.67)	32.67	2400000.000

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| Semivolatile Analysis Data - E21L1
|
| Tentatively Identified Compounds| CASE NO: 30721
|
| SDG NO: E21K0
|-----| LABORATORY: CLAYTON GROUP SERVICES
|-----

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
000090-05-1 PHENOL, 2-METHOXY-		8.28	890000.000
NJ			
000095-51-2 BENZENAMINE, 2-CHLORO-		9.04	670000.000
NJ			
UNKNOWN (9.13)		9.13	230000.000
J			
UNKNOWN (16.15)		16.15	3500000.000
J			
001655-70-5 BENZENE, 1,14-OXYBIS(2-METHOXY-		16.30	2700000.000
NJ			
UNKNOWN (16.44)		16.44	2400000.000
J			
UNKNOWN (16.78)		16.78	260000.000
J			
000000-00-0 P-HYDROXYPHENYL PHENYLSULFONE		17.25	240000.000
NJ			
UNKNOWN (17.44)		17.44	4900000.000
J			
UNKNOWN (17.65)		17.65	6400000.000
J			
UNKNOWN (17.69)		17.69	290000.000
J			
080569-37-5 2-(4-METHOXYPHENYL)-N,N,2-TRIMETHYL-1-PY		17.91	3000000.000
NJ			
UNKNOWN (18.38)		18.38	410000.000
J			
004433-09-4 (1,14-BIPHENYL)-4,44-DIOL, 3,34-DIMETHOX		19.31	180000.000
NJ			
068454-44-4 METHYL 8-METHOXYPHENZO(1,2-B:5,4-B4)DIFUR		19.55	210000.000
NJ			
UNKNOWN (19.65)		19.65	240000.000
J			
UNKNOWN (19.75)		19.75	420000.000
J			
UNKNOWN (20.64)		20.64	300000.000
J			
089148-83-4 6,12-DIHYDRO-3,10-DIMETHOXY-11H-BENZO(B) (21.47)		21.47	530000.000
NJ			
UNKNOWN (21.59)		21.59	190000.000
J			
UNKNOWN (22.13)		22.13	330000.000
J			
UNKNOWN (22.2)		22.20	170000.000
J			
089148-83-4 6,12-DIHYDRO-3,10-DIMETHOXY-11H-BENZO(B) (22.3)		22.30	190000.000
NJ			
083375-26-2 11-HYDROXY-3,10-DIMETHOXY-1-METHYL-12H-B		22.71	190000.000
NJ			
UNKNOWN (22.76)		22.76	330000.000

J				
	028344-36-7 ANDROSTAN-17-ONE, 5,6-EPOXY-3-FLUORO-, (23.31	380000.000
NJ				
	UNKNOWN (23.53)		23.53	170000.000
J				
	UNKNOWN (24.43)		24.43	180000.000
J				
	UNKNOWN (24.48)		24.48	210000.000
J				
	UNKNOWN (25.04)		25.04	260000.000
J				

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| Semivolatile Analysis Data - E21K3
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Tentatively Identified Compounds

| CASE NO: 30721

| LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
000611-14-3 BENZENE, 1-ETHYL-2-METHYL-		7.40	690000.000
NJ			
001074-43-7 BENZENE, 1-METHYL-3-PROPYL-		7.71	1800000.000
NJ			
002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL- (7.79)		7.79	2800000.000
NJ			
002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL- (8.09)		8.09	2100000.000
NJ			
002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL- (8.13)		8.13	1400000.000
NJ			
000099-87-6 BENZENE, 1-METHYL-4-(1-METHYLETHYL)-		8.23	3300000.000
NJ			
UNKNOWN HYDROCARBON (8.42)		8.42	370000.000
J			
UNKNOWN HYDROCARBON (8.45)		8.45	460000.000
J			
002870-04-4 BENZENE, 2-ETHYL-1,3-DIMETHYL- (8.6)		8.60	1400000.000
NJ			
000488-23-3 BENZENE, 1,2,3,4-TETRAMETHYL-		8.74	4700000.000
NJ			
000095-93-2 BENZENE, 1,2,4,5-TETRAMETHYL-		8.82	4800000.000
NJ			
UNKNOWN HYDROCARBON (8.97)		8.97	950000.000
J			
UNKNOWN (9.09)		9.09	2200000.000
J			
UNKNOWN HYDROCARBON (9.21)		9.21	3500000.000
J			
UNKNOWN HYDROCARBON (9.34)		9.34	920000.000
J			
UNKNOWN HYDROCARBON (9.41)		9.41	6400000.000
J			
002049-95-8 BENZENE, (1,1-DIMETHYLPROPYL)-		9.48	1100000.000
NJ			
004132-72-3 BENZENE, 1,4-DIMETHYL-2-(1-METHYLETHYL)-		9.53	1000000.000
NJ			
UNKNOWN HYDROCARBON (9.63)		9.63	2900000.000
J			
UNKNOWN HYDROCARBON (9.85)		9.85	680000.000
J			
UNKNOWN (9.94)		9.94	2400000.000
J			
000700-12-9 BENZENE, PENTAMETHYL- (10.19)		10.19	1700000.000
NJ			
000000-00-0 BENZENE, 1,3,5-TRIMETHYL-2-PROPYL-		10.32	280000.000
NJ			
UNKNOWN HYDROCARBON (10.63)		10.63	510000.000
J			
006682-71-9 1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL- (10.86)		10.86	330000.000
NJ			

006682-71-9 1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-	(11.08)	11.08	370000.000
NJ			
000098-51-1 BENZENE, 1-(1,1-DIMETHYLETHYL)-4-METHYL-		11.17	390000.000
NJ			
000700-12-9 BENZENE, PENTAMETHYL-	(11.27)	11.27	870000.000
NJ			
UNKNOWN (11.54)		11.54	340000.000
J			
000085-44-9 1,3-ISOBENZOFURANDIONE		11.83	870000.000
NJ			

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| Semivolatile Analysis Data - E21L8DL
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| Tentatively Identified Compounds
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| CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES

| SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			

000122-88-3 ACETIC ACID, (4-CHLOROPHOXY)-		14.24	160000.000
NJ			
001928-38-7 ACETIC ACID, (2,4-DICHLOROPHOXY)-, MET		14.98	880000.000
NJ			
UNKNOWN (15.51)		15.51	20000.000
J			
000094-75-7 ACETIC ACID, (2,4-DICHLOROPHOXY)-		15.95	4400000.000
NJ			
UNKNOWN (19.64)		19.64	12000.000
J			
UNKNOWN (19.75)		19.75	17000.000
J			
UNKNOWN (20.22)		20.22	13000.000
J			
UNKNOWN (21.13)		21.13	11000.000
J			
UNKNOWN (23.06)		23.06	11000.000
J			
UNKNOWN (23.34)		23.34	11000.000
J			
UNKNOWN (23.48)		23.48	12000.000
J			
UNKNOWN (23.65)		23.65	14000.000
J			

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Semivolatile Analysis Data - E21K0DL

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
000095-51-2 BENZENAMINE, 2-CHLORO-		9.05	3100000.000
NJ			
000140-29-4 BENZENEACETONITRILE		9.10	220000.000
NJ			
000108-70-3 BENZENE, 1,3,5-TRICHLORO-		9.88	540000.000
NJ			
000087-61-6 BENZENE, 1,2,3-TRICHLORO-		10.47	260000.000
NJ			
000121-73-3 BENZENE, 1-CHLORO-3-NITRO-		10.62	200000.000
NJ			
000100-00-5 BENZENE, 1-CHLORO-4-NITRO-		10.78	1300000.000
NJ			
000088-73-3 2-CHLORONITROBENZENE		10.94	5000000.000
NJ			
000095-76-1 BENZENAMINE, 3,4-DICHLORO- (11.99)		11.99	2600000.000
NJ			
000634-66-2 BENZENE, 1,2,3,4-TETRA CHLORO-		12.04	430000.000
NJ			
000608-31-1 BENZENAMINE, 2,6-DICHLORO-		12.28	1300000.000
NJ			
000095-94-3 BENZENE, 1,2,4,5-TETRA CHLORO-		12.67	2000000.000
NJ			
000095-76-1 BENZENAMINE, 3,4-DICHLORO- (13.14)		13.14	470000.000
NJ			
000100-29-8 BENZENE, 1-ETHOXYSUBSTITUTED-		13.50	180000.000
NJ			
UNKNOWN (14.68)		14.68	190000.000
J			
UNKNOWN (14.73)		14.73	380000.000
J			
000086-00-0 1,14-BIPHENYL, 2-NITRO-		15.66	680000.000
NJ			
002243-47-2 (1,14-BIPHENYL)-3-AMINE		16.11	160000.000
NJ			
000092-93-3 1,14-BIPHENYL, 4-NITRO-		16.97	1100000.000
NJ			
UNKNOWN (17.26)		17.26	180000.000
J			
UNKNOWN (27.36)		27.36	100000.000
J			

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Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
000095-51-2 BENZENAMINE, 2-CHLORO-		9.02	23000.000
NJ			
000100-00-5 BENZENE, 1-CHLORO-4-NITRO-		10.78	7500.000
NJ			
000088-73-3 2-CHLORONITROBENZENE		10.88	14000.000
NJ			
000608-31-1 BENZENAMINE, 2,6-DICHLORO- (11.98)		11.98	48000.000
NJ			
000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO- (12.03)		12.03	5500.000
NJ			
000608-31-1 BENZENAMINE, 2,6-DICHLORO- (12.26)		12.26	28000.000
NJ			
000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO- (12.63)		12.63	30000.000
NJ			
000130-15-4 1,4-NAPHTHALENEDIONE		13.01	7100.000
NJ			
000095-76-1 BENZENAMINE, 3,4-DICHLORO-		13.14	10000.000
NJ			
000091-64-5 2H-1-BENZOPYRAN-2-ONE		13.31	8800.000
NJ			
000100-29-8 BENZENE, 1-ETHOXY-4-NITRO-		13.50	5400.000
NJ			
000140-66-9 PHENOL, 4-(1,1,3,3-TETRAMETHYLBUTYL)-		14.68	36000.000
NJ			
UNKNOWN (14.76)		14.76	17000.000
J			
000103-50-4 BENZENE, 1,14-(OXYBIS(METHYLENE))BIS-		15.17	12000.000
NJ			
000086-00-0 1,14-BIPHENYL, 2-NITRO-		15.66	15000.000
NJ			
UNKNOWN (16.11)		16.11	5400.000
J			
UNKNOWN (16.38)		16.38	43000.000
J			
000092-93-3 1,14-BIPHENYL, 4-NITRO-		16.96	41000.000
NJ			
062796-65-0 1,14-BIPHENYL, 2,24,4,6-TETRACHLORO-		17.53	6400.000
NJ			
UNKNOWN (17.87)		17.87	10000.000
J			
UNKNOWN (17.94)		17.94	17000.000
J			
UNKNOWN (18.11)		18.11	8100.000
J			
026914-33-0 1,14-BIPHENYL, TETRACHLORO-		18.46	5600.000
NJ			
038380-03-9 1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-		19.27	6600.000
NJ			
032598-14-4 1,14-BIPHENYL, 2,3,34,4,44-PENTACHLORO-		19.59	11000.000
NJ			
000620-40-6 BENZENEMETHANAMINE, N,N-BIS(PHENYLMETHYL		19.73	19000.000
NJ			
UNKNOWN (19.83)		19.83	17000.000
J			

074472-35-8 1,14-BIPHENYL, 2,3,34,4,6-PENTACHLORO-	19.98	8600.000
NJ		
052663-72-6 1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO	20.29	5300.000
NJ		
UNKNOWN (26.3)	26.30	13000.000
J		

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Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS NUMBER Q	COMPOUND NAME	ESTIMATED	
		RT	CONCENTRATION
000095-51-2 BENZENAMINE, 2-CHLORO- (9.02) NJ		9.02	830000.000
001863-63-4 BENZOIC ACID NJ		9.21	160000.000
000095-51-2 BENZENAMINE, 2-CHLORO- (10.12) NJ		10.12	49000.000
000121-73-3 BENZENE, 1-CHLORO-3-NITRO- NJ		10.62	220000.000
000100-00-5 BENZENE, 1-CHLORO-4-NITRO- NJ		10.78	1500000.000
000088-73-3 2-CHLORONITROBENZENE NJ		10.89	700000.000
000085-44-9 1,3-ISOBENZOFURANDIONE NJ		11.81	120000.000
000608-31-1 BENZENAMINE, 2,6-DICHLORO- (11.98) NJ		11.98	760000.000
000608-31-1 BENZENAMINE, 2,6-DICHLORO- (12.26) NJ		12.26	460000.000
UNKNOWN (12.6) J		12.60	57000.000
000091-64-5 2H-1-BENZOPYRAN-2-ONE (12.92) NJ		12.92	90000.000
000130-15-4 1,4-NAPHTHALENEDIONE NJ		13.01	320000.000
000095-76-1 BENZENAMINE, 3,4-DICHLORO- NJ		13.14	67000.000
000091-64-5 2H-1-BENZOPYRAN-2-ONE (13.33) NJ		13.33	420000.000
000100-29-8 BENZENE, 1-ETHOXYS-4-NITRO- NJ		13.50	140000.000
000058-27-5 1,4-NAPHTHALENEDIONE, 2-METHYL- NJ		14.09	43000.000
000088-19-7 2-TOLUENESULFONAMIDE NJ		15.00	73000.000
000070-55-3 4-TOLUENESULFONAMIDE NJ		15.34	56000.000
000086-00-0 1,14-BIPHENYL, 2-NITRO- NJ		15.66	270000.000
UNKNOWN (16.38) J		16.38	40000.000
000092-93-3 1,14-BIPHENYL, 4-NITRO- NJ		16.94	180000.000
052663-59-9 1,14-BIPHENYL, 2,24,3,4-TETRACHLORO- NJ		17.53	44000.000
000084-65-1 9,10-ANTHRACENEDIONE NJ		17.94	100000.000
039485-83-1 1,14-BIPHENYL, 2,24,4,44,6-PENTACHLORO- (18.46) NJ		18.46	87000.000
039485-83-1 1,14-BIPHENYL, 2,24,4,44,6-PENTACHLORO- (18.73) NJ		18.73	55000.000

	038380-03-9 1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	19.27	52000.000
NJ			
	074472-37-0 2,3,4,44,5-PENTACHLOROBIPHENYL	19.59	140000.000
NJ			
	1002498-66-0 BENZ (A) ANTHRACENE-7,12-DIONE	23.26	64000.000
NJ			
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	Tentatively Identified Compounds		
	CASE NO: 30721	LABORATORY: CLAYTON GROUP SERVICES	
	SDG NO: E21K0		
- - -			
	CAS	COMPOUND	ESTIMATED
	NUMBER	NAME	RT CONCENTRATION
Q			
- - -			
	000095-51-2 BENZENAMINE, 2-CHLORO-	9.02	370000.000
NJ			
	000140-29-4 BENZENEACETONITRILE	9.11	15000.000
NJ			
	000065-85-0 BENZOIC ACID	9.17	11000.000
NJ			
	000614-72-2 BENZENE, 1-CHLORO-2-ETHOXY-	9.61	10000.000
NJ			
	000106-47-8 BENZENAMINE, 4-CHLORO-	10.12	13000.000
NJ			
	000100-00-5 BENZENE, 1-CHLORO-4-NITRO-	10.76	20000.000
NJ			
	000088-73-3 2-CHLORONITROBENZENE	10.88	26000.000
NJ			
	000085-44-9 1,3-ISOBENZOFURANDIONE	11.81	29000.000
NJ			
	000095-76-1 BENZENAMINE, 3,4-DICHLORO-	11.96	92000.000
NJ			
	000608-31-1 BENZENAMINE, 2,6-DICHLORO-	12.27	57000.000
NJ			
	000091-64-5 2H-1-BENZOPYRAN-2-ONE (12.92)	12.92	32000.000
NJ			
	000130-15-4 1,4-NAPHTHALENEDIONE	13.01	48000.000
NJ			
	000091-64-5 2H-1-BENZOPYRAN-2-ONE (13.33)	13.33	180000.000
NJ			
	000058-27-5 1,4-NAPHTHALENEDIONE, 2-METHYL-	14.09	13000.000
NJ			
	000088-19-7 2-TOLUENESULFONAMIDE	15.00	30000.000
NJ			
	000070-55-3 4-TOLUENESULFONAMIDE	15.34	22000.000
NJ			
	UNKNOWN (16.39)	16.39	62000.000
J			
	000092-93-3 1,14-BIPHENYL, 4-NITRO-	16.94	12000.000
NJ			
	041464-42-0 1,14-BIPHENYL, 2,34,5,54-TETRACHLORO-	17.54	12000.000
NJ			

000084-65-1 9,10-ANTHRACENEDIONE	17.94	38000.000
NJ		
031508-00-6 1,14-BIPHENYL, 2,34,4,44,5-PENTACHLORO- (18.46)	18.46	27000.000
NJ		
038380-01-7 1,14-BIPHENYL, 2,24,4,44,5-PENTACHLORO-	18.73	16000.000
NJ		
UNKNOWN (18.85)	18.85	12000.000
J		
038380-03-9 1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	19.26	14000.000
NJ		
UNKNOWN (19.6)	19.60	51000.000
J		
000620-40-6 BENZENEMETHANAMINE, N,N-BIS(PHENYLMETHYL	19.73	26000.000
NJ		
026601-64-9 1,14-BIPHENYL, HEXACHLORO-	19.85	12000.000
NJ		
031508-00-6 1,14-BIPHENYL, 2,34,4,44,5-PENTACHLORO- (19.98)	19.98	12000.000
NJ		
032774-16-6 3,4,5,34,44,54-HEXACHLOROBIPHENYL	20.29	18000.000
NJ		
002498-66-0 BENZ(A)ANTHRACENE-7,12-DIONE	23.26	17000.000
NJ		

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| Semivolatile Analysis Data - E21L2
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Tentatively Identified Compounds

| CASE NO: 30721

| LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
004537-14-8 BENZENE, (1-PENTYLHEXYL)-		14.75	38000.000
NJ	UNKNOWN HYDROCARBON (14.78)	14.78	38000.000
J			
004536-86-1 BENZENE, (1-PROPYLOCTYL)-		14.88	30000.000
NJ	UNKNOWN HYDROCARBON (15.09)	15.09	42000.000
J	UNKNOWN HYDROCARBON (15.39)	15.39	56000.000
J	UNKNOWN HYDROCARBON (15.71)	15.71	27000.000
J			
002400-00-2 BENZENE, (1-ETHYLDECYL)-		15.90	32000.000
NJ	UNKNOWN (16.12)	16.12	27000.000
J	UNKNOWN HYDROCARBON (16.2)	16.20	54000.000
J			
004534-49-0 BENZENE, (1-PENTYLOCTYL)-		16.30	53000.000
NJ	UNKNOWN HYDROCARBON (16.94)	16.94	46000.000
J	UNKNOWN (17.4)	17.40	52000.000
J			
041411-62-5 1,14-BIPHENYL, 2,3,34,4,5,6-HEXACHLORO-		19.56	27000.000
NJ			
000072-54-8 P,P4-DDD		19.66	26000.000
NJ			
052663-72-6 1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (19.85)		19.85	67000.000
NJ			
052663-72-6 1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (20.29)		20.29	110000.000
NJ			
052663-65-7 1,14-BIPHENYL, 2,24,3,34,4,6,64-HEPTACHL		20.51	74000.000
NJ			
039635-31-9 1,14-BIPHENYL, 2,3,34,4,44,5,54-HEPTACHL (20.59)		20.59	43000.000
NJ			
074472-51-8 1,14-BIPHENYL, 2,3,34,4,5,54,6-HEPTACHLO (20.91)		20.91	110000.000
NJ			
052663-69-1 1,14-BIPHENYL, 2,24,3,4,44,54,6-HEPTACHL		21.01	83000.000
NJ			
052663-72-6 1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (21.1)		21.10	71000.000
NJ			
074472-49-4 1,14-BIPHENYL, 2,24,3,4,5,6,64-HEPTACHLO		21.22	54000.000
NJ			
039635-31-9 1,14-BIPHENYL, 2,3,34,4,44,5,54-HEPTACHL (21.98)		21.98	530000.000
NJ			
042740-50-1 1,14-BIPHENYL, 2,24,3,34,4,44,5,64-OCTAC		22.10	180000.000
NJ			
052663-78-2 1,14-BIPHENYL, 2,24,3,34,4,44,5,6-OCTACH (22.21)		22.21	250000.000
NJ			

074472-51-8 1,14-BIPHENYL, 2,3,34,4,5,54,6-HEPTACHLO (22.5)	22.50	43000.000
NJ		
052663-78-2 1,14-BIPHENYL, 2,24,3,34,4,44,5,6-OCTACH (22.94)	22.94	160000.000
NJ		
052663-78-2 1,14-BIPHENYL, 2,24,3,34,4,44,5,6-OCTACH (23.35)	23.35	570000.000
NJ		
074472-52-9 1,14-BIPHENYL, 2,24,3,4,44,5,6,64-OCTACH	23.48	39000.000
NJ		
UNKNOWN (24.97)	24.97	44000.000
J		

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Tentatively Identified Compounds

| CASE NO: 30721

| LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
000095-63-6 BENZENE, 1,2,4-TRIMETHYL-		7.38	600000.000
NJ			
001074-43-7 BENZENE, 1-METHYL-3-PROPYL-		7.67	1600000.000
NJ			
000934-80-5 BENZENE, 4-ETHYL-1,2-DIMETHYL-		7.75	2500000.000
NJ			
001758-88-9 BENZENE, 2-ETHYL-1,4-DIMETHYL-		8.06	1800000.000
NJ			
000095-93-2 BENZENE, 1,2,4,5-TETRAMETHYL-		8.09	1300000.000
NJ			
000099-87-6 BENZENE, 1-METHYL-4-(1-METHYLETHYL)-		8.17	2900000.000
NJ			
UNKNOWN HYDROCARBON (8.38)		8.38	330000.000
J			
UNKNOWN HYDROCARBON (8.41)		8.41	410000.000
J			
000527-84-4 BENZENE, 1-METHYL-2-(1-METHYLETHYL)-		8.55	1200000.000
NJ			
000527-53-7 BENZENE, 1,2,3,5-TETRAMETHYL-		8.70	4100000.000
NJ			
000488-23-3 BENZENE, 1,2,3,4-TETRAMETHYL-		8.76	5000000.000
NJ			
UNKNOWN HYDROCARBON (8.93)		8.93	820000.000
J			
UNKNOWN HYDROCARBON (9.03)		9.03	1800000.000
J			
000874-35-1 1H-INDENE, 2,3-DIHYDRO-5-METHYL-		9.17	3100000.000
NJ			
UNKNOWN (9.29)		9.29	670000.000
J			
000934-74-7 BENZENE, 1-ETHYL-3,5-DIMETHYL-		9.36	6200000.000
NJ			
UNKNOWN HYDROCARBON (9.44)		9.44	810000.000
J			
UNKNOWN HYDROCARBON (9.49)		9.49	1000000.000
J			
UNKNOWN HYDROCARBON (9.59)		9.59	2400000.000
J			
UNKNOWN HYDROCARBON (9.81)		9.81	490000.000
J			
UNKNOWN (9.9)		9.90	2000000.000
J			
000700-12-9 BENZENE, PENTAMETHYL-		10.15	1500000.000
NJ			
025550-13-4 BENZENE, DIETHYLMETHYL-		10.32	480000.000
NJ			
004706-90-5 BENZENE, 1,3-DIMETHYL-5-(1-METHYLETHYL)- (10.59)		10.59	480000.000
NJ			
006682-71-9 1H-INDENE, 2,3-DIHYDRO-4,7-DIMETHYL-		10.83	300000.000
NJ			

	UNKNOWN HYDROCARBON (11.04)	11.04	340000.000
J	UNKNOWN (11.13)	11.13	350000.000
J	1004706-90-5 BENZENE, 1,3-DIMETHYL-5-(1-METHYLETHYL)- (11.23)	11.23	860000.000
NJ	UNKNOWN (11.48)	11.48	320000.000
J	1000085-44-9 1,3-ISOBENZOFURANDIONE	11.79	980000.000
NJ			

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Semivolatile Analysis Data - E21L9

Tentatively Identified Compounds

CASE NO: 30721	LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0	

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
1000079-92-5 CAMPHENNE		6.45	99000.000
NJ			
1000527-84-4 BENZENE, 1-METHYL-2-(1-METHYLETHYL)-		7.31	65000.000
NJ			
1000087-61-6 BENZENE, 1,2,3-TRICHLORO-		10.44	80000.000
NJ			
1000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO- (12.01)		12.01	510000.000
NJ			
1000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO- (12.63)		12.63	940000.000
NJ			
1000101-81-5 BENZENE, 1,14-METHYLENEBIS-		12.72	270000.000
NJ			
1000000-00-0 M-CHLORO-N,N-DIETHYLANILINE		13.09	63000.000
NJ			
UNKNOWN (13.23)		13.23	520000.000
J			
UNKNOWN (13.38)		13.38	34000.000
J			
1000644-08-6 1,14-BIPHENYL, 4-METHYL-		13.63	190000.000
NJ			
UNKNOWN (14.41)		14.41	250000.000
J			
UNKNOWN (14.85)		14.85	270000.000
J			
UNKNOWN (15.05)		15.05	29000.000
J			
UNKNOWN (15.12)		15.12	34000.000
J			
UNKNOWN (15.2)		15.20	460000.000
J			
1000120-51-4 BENZYL BENZOATE		16.10	530000.000
NJ			
UNKNOWN (16.32)		16.32	32000.000
J			

000120-32-1 PHENOL, 4-CHLORO-2-(PHENYLMETHYL)-		17.11	87000.000
NJ	UNKNOWN (17.43)	17.43	370000.000
J			
000090-47-1 9H-XANTHEN-9-ONE		17.77	31000.000
NJ	UNKNOWN (19.51)	19.51	46000.000
J			
000072-54-8 P,P4-DDD		19.61	30000.000
NJ			
000115-86-6 PHOSPHORIC ACID, TRIPHENYL ESTER		20.30	260000.000
NJ	UNKNOWN (21.77)	21.77	260000.000
J			
UNKNOWN (21.84)		21.84	47000.000
J			
UNKNOWN HYDROCARBON		22.06	85000.000
J			
UNKNOWN (22.28)		22.28	27000.000
J			
UNKNOWN (22.77)		22.77	43000.000
J			
UNKNOWN (23.21)		23.21	89000.000
J			

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----- Semivolatile Analysis Data - E21L6				

Tentatively Identified Compounds				
CASE NO: 30721	LABORATORY: CLAYTON GROUP SERVICES			
SDG NO: E21K0				

CAS	COMPOUND	ESTIMATED		
NUMBER	NAME	RT	CONCENTRATION	
Q				
000101-81-5 NJ	BENZENE, 1,14-METHYLENEBIS-	12.72	300000.000	
055702-46-0 NJ	1,14-BIPHENYL, 2,3,4-TRICHLORO-	16.33	720000.000	
055702-45-9 NJ	1,14-BIPHENYL, 2,3,6-TRICHLORO-	16.64	470000.000	
038444-86-9 NJ	1,14-BIPHENYL, 24,3,4-TRICHLORO- (17.01)	17.01	760000.000	
038444-86-9 NJ	1,14-BIPHENYL, 24,3,4-TRICHLORO- (17.04)	17.04	980000.000	
015968-05-5 NJ	1,14-BIPHENYL, 2,24,6,64-TETRACHLORO-	17.19	910000.000	
052663-58-8 NJ	1,14-BIPHENYL, 2,3,44,6-TETRACHLORO- (17.28)	17.28	500000.000	
062796-65-0 NJ	1,14-BIPHENYL, 2,24,4,6-TETRACHLORO- (17.5)	17.50	1300000.000	
041464-42-0 NJ	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO- (17.58)	17.58	1900000.000	
041464-42-0 NJ	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO- (17.63)	17.63	1800000.000	
052663-58-8 NJ	1,14-BIPHENYL, 2,3,44,6-TETRACHLORO- (17.83)	17.83	530000.000	
062796-65-0 NJ	1,14-BIPHENYL, 2,24,4,6-TETRACHLORO- (17.89)	17.89	500000.000	
041464-42-0 NJ	1,14-BIPHENYL, 2,34,5,54-TETRACHLORO- (17.99)	17.99	710000.000	
025429-29-2 NJ	1,14-BIPHENYL, PENTACHLORO- (18.31)	18.31	300000.000	
041464-49-7 NJ	1,14-BIPHENYL, 2,3,34,54-TETRACHLORO-	18.36	490000.000	
032598-12-2 NJ	1,14-BIPHENYL, 2,4,44,6-TETRACHLORO-	18.43	1400000.000	
025429-29-2 NJ	1,14-BIPHENYL, PENTACHLORO- (18.53)	18.53	600000.000	
073575-56-1 NJ	1,14-BIPHENYL, 2,24,3,5,6-PENTACHLORO-	18.61	430000.000	
038380-03-9 NJ	1,14-BIPHENYL, 2,3,34,44,6-PENTACHLORO-	18.71	1100000.000	
070424-70-3 NJ	1,14-BIPHENYL, 24,3,4,5,54-PENTACHLORO-	18.78	450000.000	
074472-35-8 NJ	1,14-BIPHENYL, 2,3,34,4,6-PENTACHLORO-	19.22	800000.000	
052663-72-6 NJ	1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (19.37)	19.37	350000.000	
041411-62-5 NJ	1,14-BIPHENYL, 2,3,34,4,5,6-HEXACHLORO-	19.49	410000.000	
026601-64-9 NJ	1,14-BIPHENYL, HEXACHLORO-	19.54	760000.000	
052712-04-6 NJ	1,14-BIPHENYL, 2,24,3,4,5,54-HEXACHLORO-	19.73	430000.000	
026601-64-9 NJ				

052663-72-6 1,14-BIPHENYL, 2,34,4,44,5,54-HEXACHLORO (19.81)	19.81	600000.000
NJ		
032774-16-6 3,4,5,34,44,54-HEXACHLOROBIPHENYL	20.23	470000.000
NJ		
074472-49-4 1,14-BIPHENYL, 2,24,3,4,5,6,64-HEPTACHLO	20.45	350000.000
NJ		
UNKNOWN PCB	20.98	270000.000
J		
UNKNOWN	23.22	240000.000
J		

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| Semivolatile Analysis Data - E21K1
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Tentatively Identified Compounds

| CASE NO: 30721

| LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

Q	CAS NUMBER	COMPOUND NAME	ESTIMATED	
			RT	CONCENTRATION
J		UNKNOWN (9)	9.00	150000.000
J		UNKNOWN (9.05)	9.05	47000.000
NJ	000121-73-3	BENZENE, 1-CHLORO-3-NITRO-	10.61	24000.000
NJ	000100-00-5	BENZENE, 1-CHLORO-4-NITRO-	10.76	160000.000
NJ	000088-73-3	2-CHLORONITROBENZENE	10.89	180000.000
J		UNKNOWN (11.53)	11.53	37000.000
J		UNKNOWN (11.81)	11.81	70000.000
NJ	000095-76-1	BENZENAMINE, 3,4-DICHLORO-	11.96	160000.000
NJ	000095-94-3	BENZENE, 1,2,4,5-TETRACHLORO-	12.62	23000.000
NJ	000626-43-7	BENZENAMINE, 3,5-DICHLORO- (PURITY?)	13.12	68000.000
J		UNKNOWN PHENOLIC COMPOUND (14.14)	14.14	55000.000
J		UNKNOWN (15.23)	15.23	9500000.000
J		UNKNOWN (15.45)	15.45	430000.000
J		UNKNOWN (15.64)	15.64	220000.000
J		UNKNOWN PHENOLIC COMPOUND (15.84)	15.84	65000.000
J		UNKNOWN (16.18)	16.18	67000.000
J		UNKNOWN PHENOLIC COMPOUND (16.43)	16.43	18000.000
NJ	000090-45-9	9-ACRIDINAMINE	17.43	31000.000
J		UNKNOWN (17.6)	17.60	22000.000
J		UNKNOWN (17.72)	17.72	37000.000
J		UNKNOWN (18.11)	18.11	130000.000
J		UNKNOWN (18.39)	18.39	37000.000
J		UNKNOWN (18.85)	18.85	18000.000
NJ	000000-00-0	DI-P-TOLYL-SULFONE	19.22	86000.000
J		UNKNOWN (22.68)	22.68	31000.000

083324-62-3 4,6-DICHLORO-5-METHYL-2-OCTYL-1,3-CYCLOH (24.34)	24.34	57000.000
NJ		
083324-62-3 4,6-DICHLORO-5-METHYL-2-OCTYL-1,3-CYCLOH (25.5)	25.50	110000.000
NJ		
UNKNOWN (27.16)	27.16	130000.000
J		
UNKNOWN (27.75)	27.75	21000.000
J		
UNKNOWN (28.86)	28.86	21000.000
J		

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Semivolatile Analysis Data - E21L3

Tentatively Identified Compounds

CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			

UNKNOWN (14.11)		14.11	45000.000
J			
UNKNOWN HYDROCARBON (14.6)		14.60	49000.000
J			
000000-00-0 OCTYL PHENOL ISOMER		14.65	88000.000
NJ			
UNKNOWN HYDROCARBON (14.9)		14.90	120000.000
J			
UNKNOWN (15)		15.00	79000.000
J			
UNKNOWN HYDROCARBON (15.05)		15.05	49000.000
J			
UNKNOWN HYDROCARBON (15.19)		15.19	84000.000
J			
027854-41-7 TRIDECANE, 2-METHYL-2-PHENYL-		15.46	36000.000
NJ			
027854-40-6 BENZENE, (1,1-DIMETHYLEDYCL)-		15.54	35000.000
NJ			
UNKNOWN (16.81)		16.81	120000.000
J			
002050-77-3 DECANE, 1-IODO-		17.10	58000.000
NJ			
UNKNOWN (18.09)		18.09	140000.000
J			
UNKNOWN (18.4)		18.40	250000.000
J			

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Semivolatile Analysis Data - E21L4

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
1000106-48-9	PHENOL, 4-CHLORO-	9.76	40000.000
NJ			
1000000-00-0	OCTYL PHENOL ISOMER	14.65	63000.000
NJ			
1004537-15-9	BENZENE, (1-BUTYLHEPTYL)-	14.75	120000.000
NJ			
1004536-86-1	BENZENE, (1-PROPYLOCTYL)-	14.85	58000.000
NJ			
J	UNKNOWN HYDROCARBON (15.05)	15.05	78000.000
J	UNKNOWN HYDROCARBON (15.36)	15.36	110000.000
J			
1002719-62-2	BENZENE, (1-PENTYLHEPTYL)-	15.52	31000.000
NJ			
J	UNKNOWN HYDROCARBON (15.56)	15.56	42000.000
J			
1002400-00-2	BENZENE, (1-ETHYLDECYL)-	15.86	60000.000
NJ			
J	UNKNOWN HYDROCARBON (16.17)	16.17	120000.000
J			
J	UNKNOWN HYDROCARBON (16.27)	16.27	100000.000
J			
J	UNKNOWN	17.04	66000.000
J			
1002136-71-2	ETHANOL, 2-(HEXADECYLOXY)-	17.23	100000.000
NJ			

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Semivolatile Analysis Data - E21L7

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			

	UNKNOWN (6.2)	6.20	47000.000
J	000059-50-7 PHENOL, 4-CHLORO-3-METHYL- (TCL)	10.90	800000.000
J	000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO- (12)	12.00	86000.000
NJ	000634-90-2 BENZENE, 1,2,3,5-TETRACHLORO- (12.6)	12.60	81000.000
NJ	000101-81-5 BENZENE, 1,14-METHYLENEBIS-	12.72	1000000.000
NJ	000643-58-3 1,14-BIPHENYL, 2-METHYL-	13.63	550000.000
NJ	000120-51-4 BENZYL BENZOATE	16.08	720000.000
NJ	UNKNOWN HYDROCARBON	17.16	70000.000
J	UNKNOWN (21.86)	21.86	220000.000
J	UNKNOWN (25.24)	25.24	170000.000
J	UNKNOWN (28.45)	28.45	110000.000
J	UNKNOWN (28.7)	28.70	84000.000
J	-----		
J	-----		
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Semivolatile Analysis Data - E21K6
Tentatively Identified Compounds
CASE NO: 30721 LABORATORY: CLAYTON GROUP SERVICES
SDG NO: E21K0

CAS COMPOUND ESTIMATED
NUMBER NAME RT CONCENTRATION
Q

000062-53-3 BENZENAMINE 6.77 14000.000
NJ
000095-51-2 BENZENAMINE, 2-CHLORO- 8.99 210000.000
NJ
000106-47-8 BENZENAMINE, 4-CHLORO- (TCL) 10.13 49000.000
NJ
000608-31-1 BENZENAMINE, 2,6-DICHLORO- (11.94) 11.94 65000.000
NJ
000608-31-1 BENZENAMINE, 2,6-DICHLORO- (12.23) 12.23 130000.000
NJ
000634-93-5 BENZENAMINE, 2,4,6-TRICHLORO- 12.90 24000.000
NJ
000554-00-7 BENZENAMINE, 2,4-DICHLORO- 13.11 42000.000
NJ
000000-00-0 OCTYL PHENOL ISOMER 14.64 49000.000
NJ
UNKNOWN HYDROCARBON 16.06 17000.000
J
004536-30-5 ETHANOL, 2-(DODECYLOXY)- 16.96 290000.000
NJ

| UNKNOWN

18.11 150000.000

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| Semivolatile Analysis Data - E21L5
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Tentatively Identified Compounds

| CASE NO: 30721

| LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS	COMPOUND	ESTIMATED	
NUMBER	NAME	RT	CONCENTRATION
Q			
000608-93-5 BENZENE, PENTACHLORO-		14.15	35000.000
NJ			
004901-51-3 PHENOL, 2,3,4,5-TETRACHLORO-		14.32	1200000.000
NJ			
000058-90-2 PHENOL, 2,3,4,6-TETRACHLORO-		14.49	14000000.000
NJ			
000087-86-5 PHENOL, PENTACHLORO-		16.58	120000000.000
NJ			
	UNKNOWN (17.18)	17.18	400000.000
J			
	UNKNOWN (23.26)	23.26	68000.000
J			
	UNKNOWN (23.36)	23.36	140000.000
J			
058802-08-7 1,2,4,7,8-PENTACHLORDIBENZO-P-DIOXIN		23.48	62000.000
NJ			
040321-76-4 1,2,3,7,8-PENTACHLORDIBENZO-P-DIOXIN		23.56	280000.000
NJ			
	UNKNOWN (23.92)	23.92	170000.000
J			
	UNKNOWN (25.17)	25.17	47000.000
J			
067562-39-4 1,2,3,4,6,7,8-HEPTACHLORDIBENZOFURAN		25.69	42000.000
NJ			
058200-70-7 1,2,3,4,6,7,9-HEPTACHLORDIBENZO-P-DIOXI (25.99)		25.99	2500000.000
NJ			
058802-51-0 1,2,3,6,7,9- OR 1,2,3,6,8,9-HEXACHLOROB		26.21	1700000.000
NJ			
000634-66-2 BENZENE, 1,2,3,4-TETRACHLORO-		26.33	310000.000
NJ			
058200-70-7 1,2,3,4,6,7,9-HEPTACHLORDIBENZO-P-DIOXI (26.72)		26.72	1700000.000
NJ			
	UNKNOWN (29.13)	29.13	750000.000
J			
003268-87-9 DIBENZO(B,E)(1,4)DIOXIN, OCTACHLORO-		30.20	6700000.000
NJ			
039001-02-0 DIBENZOFURAN, OCTACHLORO-		30.28	190000.000
NJ			
	UNKNOWN (30.42)	30.42	35000.000
J			

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Semivolatile Analysis Data - E21K1DL

Tentatively Identified Compounds

CASE NO: 30721

LABORATORY: CLAYTON GROUP SERVICES

SDG NO: E21K0

CAS NUMBER Q	COMPOUND NAME	RT	ESTIMATED CONCENTRATION
1000095-51-2 BENZENAMINE, 2-CHLORO-		8.99	94000.000
NJ			
1003320-83-0 BENZENE, 1-CHLORO-2-ISOCYANATO-		9.06	63000.000
NJ			
1000100-00-5 BENZENE, 1-CHLORO-4-NITRO-		10.75	180000.000
NJ			
1000088-73-3 2-CHLORONITROBENZENE		10.87	230000.000
NJ			
1000102-36-3 3,4-DICHLOROPHENYL ISOCYANATE		11.59	150000.000
NJ			
UNKNOWN (11.79)		11.79	73000.000
J			
1000608-31-1 BENZENAMINE, 2,6-DICHLORO-		11.95	300000.000
NJ			
1000095-76-1 BENZENAMINE, 3,4-DICHLORO-		12.23	140000.000
NJ			
1000626-43-7 BENZENAMINE, 3,5-DICHLORO- (PURITY?)		13.11	250000.000
NJ			
UNKNOWN (14.13)		14.13	120000.000
J			
UNKNOWN (14.5)		14.50	63000.000
J			
UNKNOWN (14.8)		14.80	37000000.000
J			
UNKNOWN (15.14)		15.14	120000.000
J			
UNKNOWN (15.19)		15.19	1700000.000
J			
UNKNOWN (15.34)		15.34	120000.000
J			
UNKNOWN (15.44)		15.44	350000.000
J			
UNKNOWN (15.71)		15.71	130000.000
J			
UNKNOWN (16.08)		16.08	140000.000
J			
UNKNOWN (17.28)		17.28	49000.000
J			
UNKNOWN (17.69)		17.69	48000.000
J			
1059224-76-9 12,13-DIHYDROBENZO(A,F)QUINOLIZIN-6-ONE		18.06	610000.000
NJ			
UNKNOWN (18.36)		18.36	83000.000
J			
UNKNOWN (18.55)		18.55	73000.000
J			
UNKNOWN (21.76)		21.76	42000.000
J			

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